

In the Specification

Please amend the Specification as follows:

Please add the following paragraph to page 1 of the specification after the title.

CROSS REFERENCES TO RELATED APPLICATIONS

The present application is a divisional application of application Serial No. 09/733,272, filed in the U.S. Patent and Trademark Office on December 8, 2000, entitled "CONTROLLED DISPENSING OF MATERIAL" now issued U.S. Patent Number 6,630,028. This divisional application claims priority to the aforementioned divisional patent application which is incorporated herein by reference for all purposes in its entirety.

Please amend the second full paragraph of page 1 of the specification to the following:

Insulating glass units (IGU's) are used in windows to reduce heat loss from building interiors during cold weather or to reduce heat gain in building interiors during hot weather. IGU's are typically formed by a spacer assembly that is sandwiched between glass ~~lights~~ lites. The spacer assembly usually comprises a frame structure that extends peripherally around the unit, an adhesive material that adheres the glass ~~lights~~ lites to opposite sides of the frame structure, and desiccant in an interior region of the frame structure for absorbing atmospheric moisture within the IGU. The ~~glasses~~ glass lites are flush with or extend slightly outwardly from the spacer assembly. The adhesive is disposed on opposite outer sides of the frame structure about the frame structure periphery, so that the spacer is hermetically sealed to the glass ~~lights~~ lites. An outer frame surface that defines the spacer periphery may also be coated with sealant, which increases the rigidity of the frame and acts as a moisture barrier.

Please amend the third paragraph of page 1 that continues to the top of page 2 of the specification to the following:

One type of spacer construction employs a U-shaped, roll formed aluminum or steel elements connected at its end to form a square or rectangular spacer frame. Opposite

sides of the frame are covered with an adhesive (e.g., a hot melt material) for securing the frame to the glass ~~lights~~ lites. The adhesive provides a barrier between atmospheric air and the IGU interior which blocks entry of atmospheric water vapor. Desiccant is deposited in an interior region of the U-shaped frame element. The desiccant is in communication with the air trapped in the IGU-interior and removes any entrapped water vapor and thus impedes water vapor from condensing within the IGU. After the water vapor entrapped in the IGU is removed, internal condensation only occurs when the seal between the spacer assembly and the glass ~~lights~~ lites fails or the glass ~~lights~~ lites are cracked.

Please amend the fourth full paragraph of page 7 of the specification to the following:

The present invention is directed to a system 10 for controlled dispensing of an adhesive 12 and a desiccant 14 onto an elongated window spacer 16. Referring to FIG. 2, the system 10 applies adhesive 12 to glass abutting walls 18a, 18b and an outer wall 20 of the elongated window spacer 16. In one embodiment, the system 10 also applies desiccant 14 to an interior region 22 (FIG. 3) of the elongated window spacer 16. The adhesive 12 on the glass abutting walls 18a, 18b facilitate attachment of glass ~~lights~~ lites (not shown) of an assembled insulated glass unit. The adhesive 12 on the outer wall 20 strengthens the elongated window spacer 16 and allows for attachment of external structure. The desiccant 14 applied to the interior region 22 of the elongated window spacer 16 captures any moisture that is trapped within an assembled insulating glass unit (not shown). In a second embodiment, desiccant is not applied to the interior region 22 of the spacer 16.

Please amend the third full paragraph of page 10 of the specification to the following:

Referring to FIG. 2A, the side dispensing guns 58a, 58b apply a polyisobutylene adhesive 79 to the sides 18a, 18b of the spacer frame 16 in one embodiment. The polyisobutylene material 79 provides a very reliable vapor blocking seal between the sides 18a, 18b of the spacer 16 and the glass ~~lights~~ lites (not shown). In this embodiment, bottom adhesive nozzle 74b applies a secondary seal material 81, such as polyurethane,

polysulfide or silicone. The secondary seal material adds strength to the assembled IGU.

Please amend the first full paragraph of page 11 of the specification to the following:

In one embodiment, illustrated by FIG. 2B, the side nozzles are adapted to form a triple seal between the spacer 16 and the glass ~~lights~~ lites (not shown). The side nozzles 74c include three orifices 75a, 75b, 75c for blending and applying three types of material to the sides 18a, 18b of the spacer frame 16. In the exemplary embodiment, a DSE material 77 is applied near the top and bottom of the spacer frame and a polyisobutylene (PIB) material 79 is applied between the segments of DSE. The three segments are blended together as they are applied to avoid cracks or voids between the different types of material.

Please amend the first full paragraph of page 28 of the specification to the following:

The elongated window spacer 16 with desiccant 14 and adhesive 12 applied to it is moved to the second end 138 of the conveyor 32 where it may be bent into a window spacer frame for assembly into an insulated glass unit. Alternatively, the elongated window spacer 16 may be moved to another location where is it bent to form a window spacer frame and assembled with glass ~~lights~~ lites to form an insulated glass unit.